

FIGURE 1



BEST AVAILABLE COPY

Fig.2

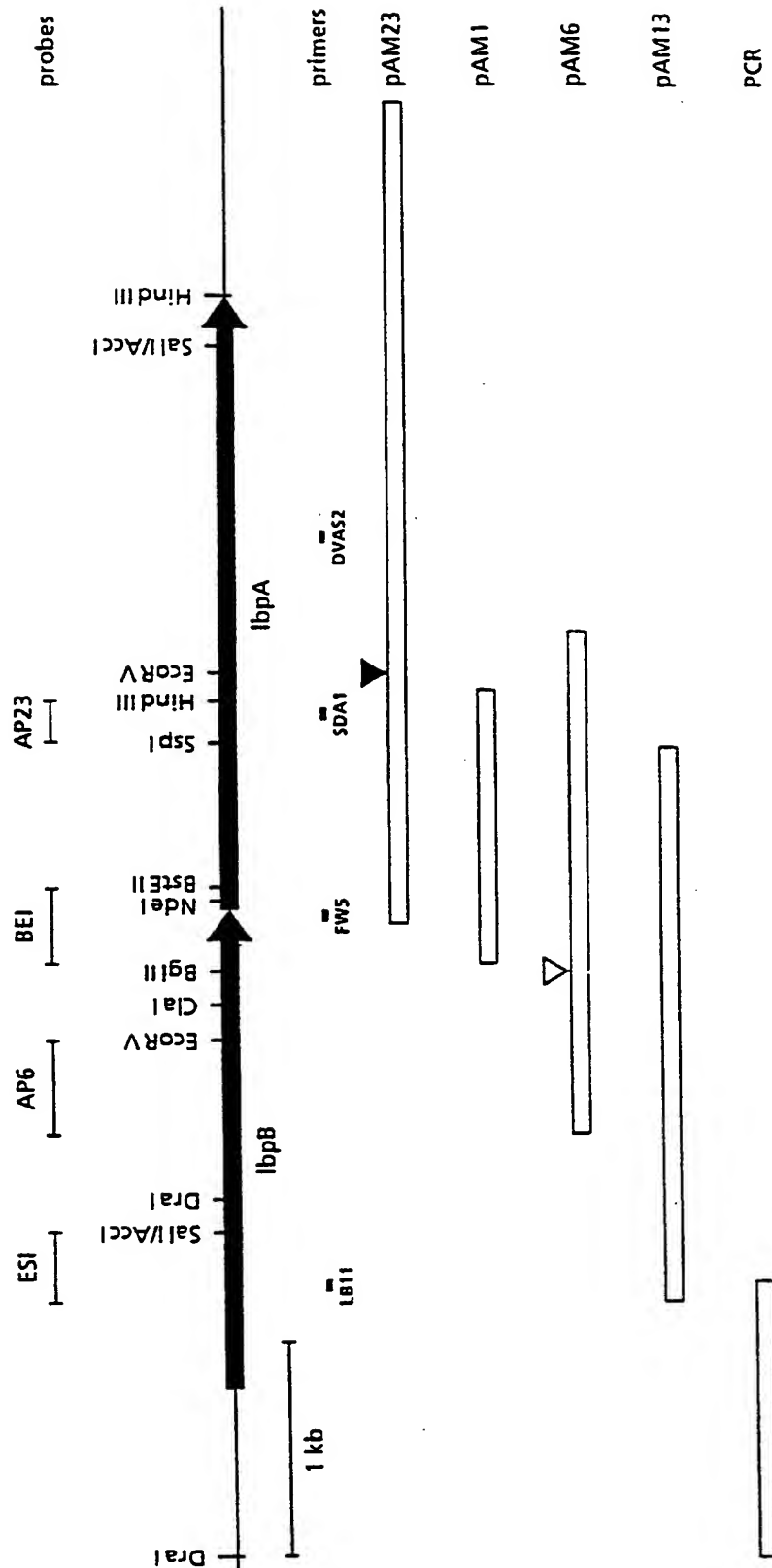


Fig.3

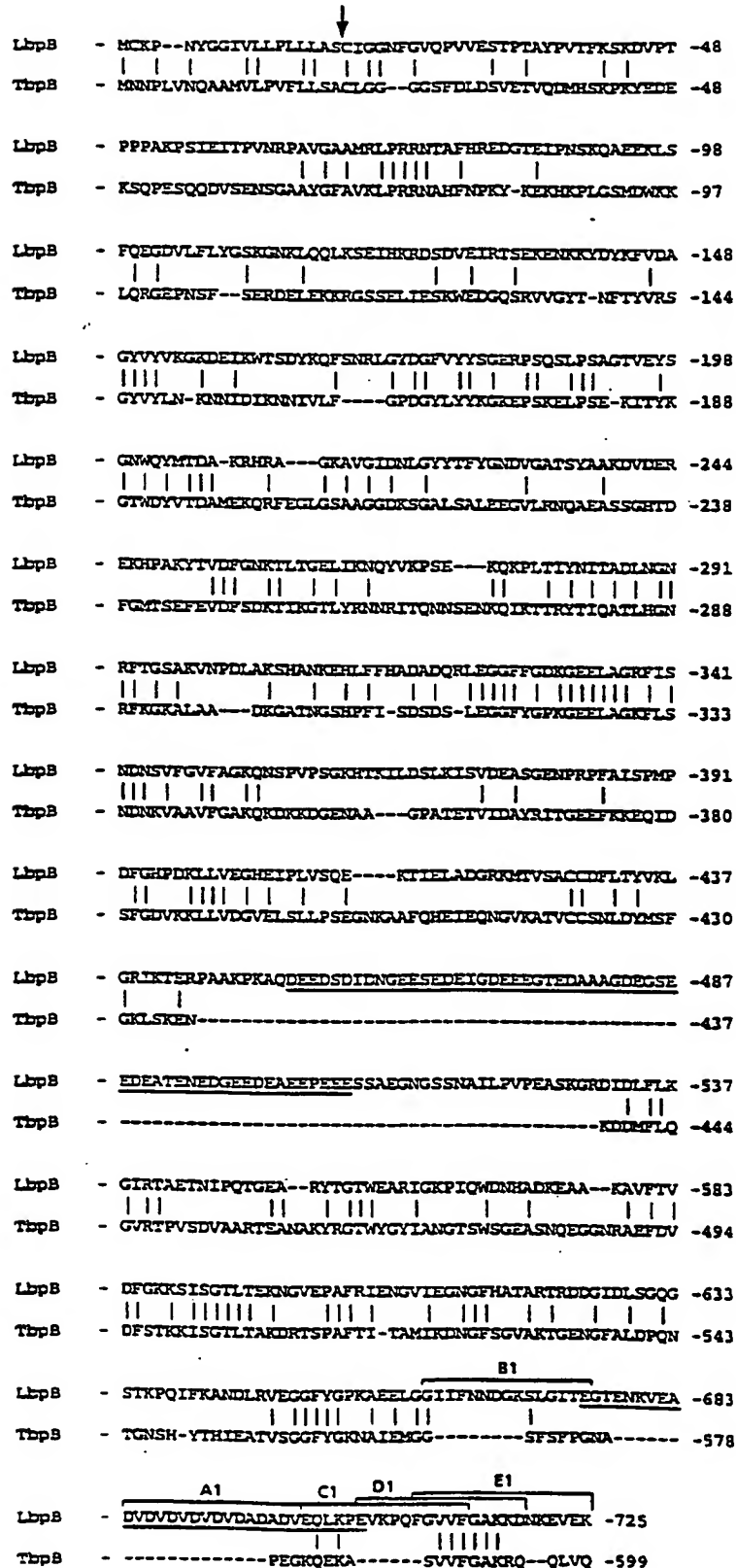


FIGURE 4

CGGGTTGATATTATCTGTACATATTAATAATAATGATAATTATTATTA
ATCAAATAGGAGGAAAAGTAGGGATGTGTAAACCGAATTATGGCGGC

FIGURE 5

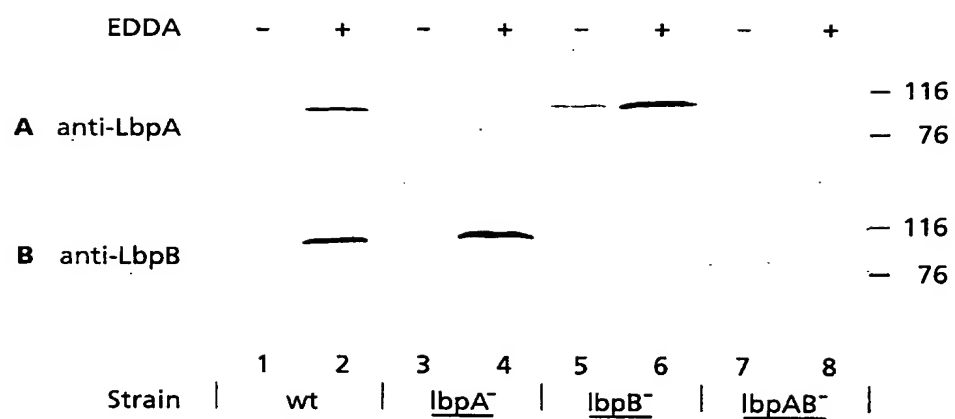


FIGURE 6

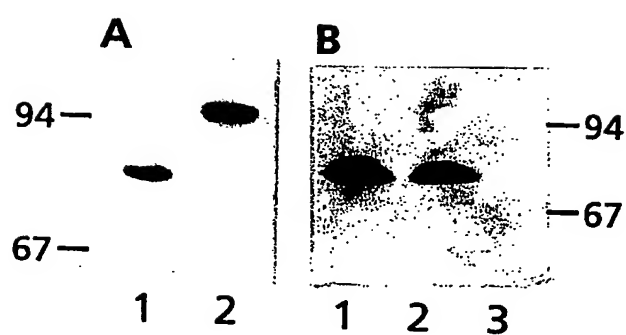


FIGURE 7

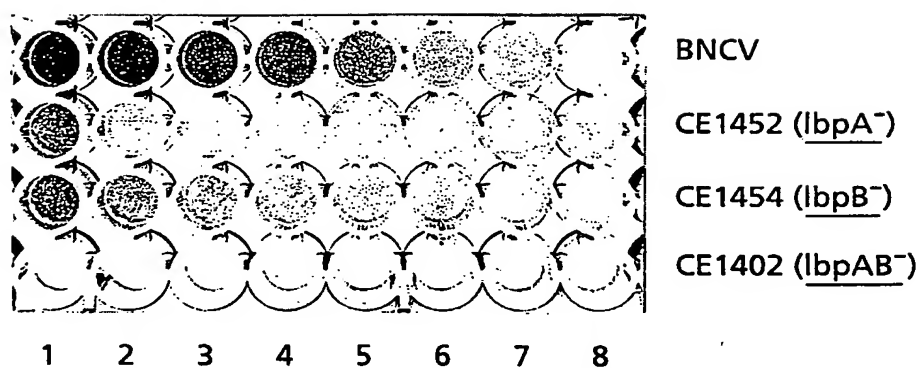


FIGURE 8

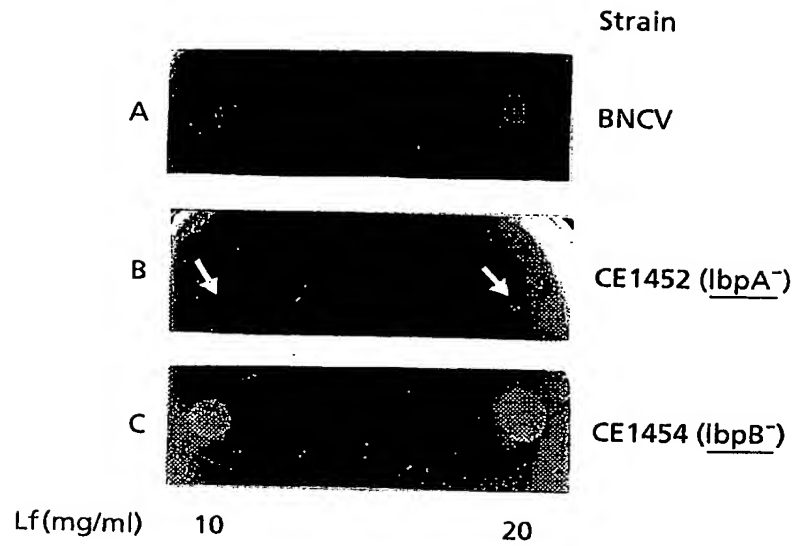


Figure 9

BNCV	MCKPNYGGIVLLPLLLASCIGGNFGVQPVVESTPTAYPVTFSK-----DVPTPP	50
H44/76	MCKPNYGGIVLLPLLLASCIGGNFGVQPVVESTPTAYPVTFSK-----DVPTPP	50
M990	MCKPNYGGIVLLPLLLASCIGGNFGVQPVVESTPTA-PTLSDSKSSNPADKPAPA	54
M981	MCKPNYGGIVLLPLLLASCIGGNFGVQPVVESTPTAYPVTFSK-----DVPTSP	50
881607	MCKPNYGGIVLLPLLLASCIGGNFGVQPVVESTPTAYPVTFSK-----DVPTSP	50
	***** * ** *	
BNCV	PAKPSIETTPVNR--PAVGAAMRLPRNTAFHREDGTEIPNSKQAEKLSFQEGD	103
H44/76	PAKPSIETTPVPSTGPAVGAAMRLRRIFATSDKVGNDFPNSKQAEKLSFKEGD	105
M990	PAEPSVEITPVKR--PAVGAAMRLPRNLTAFDKNGNEIPNSKQAEKLSFKEGD	107
M981	PAGSSVETTPVNQ--PAVGAAMRLRRNTAFHREDGTAPDSKQAEKLSFKEGD	103
881607	PAGSSVETTPVNR--PAVGAAMRLRRNLTATSDKDGNDFPNSKQAEKLSFKEED	103
	** * * * * * * * *	
BNCV	VLFLYGSKGNKLQQLKSEIHKRDSDEIIRTSEKENKKYDYKFVDAGYVYVK-GKD	157
H44/76	VLFLYGSKKDKLQWLKDKIHQRNPNVEIIRTSEKENKKYGYEFVDAGYVYTKNGTD	160
M990	ILFLDGTPEQADKLKKEINGRHPNAPIYTSDLKDDAYQYKYVRAGYVYTRYGTD	162
M981	VLFLYGSKENKLQQLKSEIHKRNPEASITTSKENKKYNYRFVSAGYVFTKNGKD	158
881607	ILFLYGSKKDQRQQLKDKIRQPNPTASITTSKENKKYDYKFVDAGYVYTKDGKD	158
	*** * * * *	
BNCV	EIKWTSDYKQFSNRLGYDGFVYYSGERPSQSLPSAGTVEYSGNWQYMTDAKRHRA	212
H44/76	EIEWTSNRKQFSNRFYDGFVYYSGEHPSQSLPSAGTVQYSGNWQYMTDAIRHRT	215
M990	EIEQNSGGKRVTHRLGYDGFVYYSGERPSQSLPSAGTVEYSGNWQYMTDAKRHRA	217
M981	EIEKTSDEKQFSNRLGYDGFVYLGHEPSQSLPSAGTVKYSGNWQYMTDAIRHRR	213
881607	EIEWTSNYKQSTNRFGYDGFVYYSGEHPSQSLPSAGTVKYSGNWQYMTDAIRHRT	213
	** * * * * * * * *	
BNCV	GKAVG-IDNLGYTTFYGNVDGATSYAAKDVDEREKHPAKYTVDFGNKTLTGELIK	266
H44/76	GKAGDPSEDLGYLVYYGQNVGATSYAATADDREGKHPAEYTVDFDKKTLTGOLIK	270
M990	GQAVG-IDNLGYITFYGNVDGATSYAAKDVDEREKHPAKYTVDFDNKTMNGKLIK	271
M981	GKGVS-SVDLGYTTFYGNVEIGAASYEARDADGREKHPAEYTVNFDKKNLEGKLIK	267
881607	GKAGDPSEDLGYIVYYGQNVGATSYAATADDREGKHPAEYTVNFDQKTLNGKLIK	268
	* * * * * * * * *	
BNCV	NQYV--KPSEKQKPLTIYNITADLNGNRFTGSAKVNPD LAKSHANKEHLFFHADA	319
H44/76	NQYV-QKKTDEKKPLTIYDITATLDGNRFTGSAKVNTLKTSHADKEHLFFHTDA	324
M990	NQYVRNKKDEPKKPLTIYDITAKLDGNRFTGSAKVNPD LAKNLAGNERLFFHADA	326
M981	NQYV-QKRDDPKNPLTIYNITADLNGNRFTGSAKVSTEVKTQHADKEYLFFHTDA	321
881607	NQYV-QKRDDPKKPLTIYDITAKLDGNRFTGSAKVNTLKTSHADKEHLFFHTDA	322
	**** * * * * *	
BNCV	DQRLEGGFFGDKGEELAGRFISNDNSVFGVFAGKQ-----NSPVPSGKHT	364
H44/76	DQRLEGGFFGDKGEELAGRFISNDNSVFGVFAGK-KTNASNAADTNPAMPSEKHT	378
M990	DQRLEGGFFGDNGEELAGRFISNDNSVFGVFAGK-KTETANAADTKPALPSGKHT	380
M981	DQRLEGGFFGDNGEELAGRFISNDNSVFGVFAGKQKTETANASDTNPALPSGKHT	376
881607	DQRLEGGFFGDKGEELAGRFISNDNSVFGVFAGKQKTETANASDTNPALPSGKHT	377
	***** * * *	
BNCV	KILD SLKISVDEASGENPRPFAISMPDFGHPDKLLVEGREIPLVSQEKTIELAD	419
H44/76	KILD SLKISVDEATDKNARPFASPLPDFGHPDKLLVEGREIPLVSQEKTIELAD	433
M990	KILD SLKISVDEATDGHARKFAISMPDFGHPDKLLVEGREIPLVNEEQIIKLAD	435
M981	KILD SLKISVDEATDDHARKFAISTMPDFGHPDKLLVEGREIPLVSQEKTIELAD	431
881607	KILD SLKISVDEASGENPRPFVSTMPDFGHPDKLLVEGREIPLVNKEQTIDLAD	432
	***** * * *	

Figure 9: (continued)

BNCV	GRKMTVSACCDFLTYVKLGRIKTERPAAKPKAQD----	EEDSDIDNGEES-EDEI	469
H44/76	GRKMTVRACCDFLTYVKLGRIKTRPASKPKAEDKGKDEEDTGVGNDEEGTEDEA		488
M990	GRKMTVRACCDFLTYVKLGRIKTRPASKPKAEDKGEDEEGAGVDNDEES-EDEA		489
M981	GRKMTIRACCDFLTYVKLGRIKTRPAVKPKAQD----	EEDSDIDNGEES-EDEI	481
881607	GRKMTVRACCDFLTYVKLGRIKTERPAVQPKAQDEEGDEEGVGVNDNGKES-EDEI		486

BNCV	GDEEETEDAAAGDEGSEDEAT---ENEDGEDEA-----	EEPEEESSA	511
H44/76	AEGSEGGEDEIGDEGGGADEEAA---ENEGGEDEA-----	EEPEEPEEESPA	533
M990	VEDEGGEEDETSEEDNGEEDDEEATAEEETEEVDEAEE-----	EEVEEPEEKSPA	537
M981	SEDDNGEDEVTEEEAEETEEETDEDEEEEEPEETEETEETEETEETEEKSPT		536
881607	GDEESTGDEVVEDEDEDEDEEII---EEPEEEAEE-----	EEPEEELPA	528
	* * *		
BNCV	E-GNGSSNAILPVPEASKGRDIDLFLKGIRTAETNIPQTGEARYTGTWEARIGKP		565
H44/76	EGGGGGSDGILPAPEAPKGRDIDLFLKGIRTAETDIPQTGKARYTGTWEARISKP		588
M990	E-GNGSGSILPALEASKGRDIDLFLKGIRTAETDIPQSGTAHYTGTWEARIGKP		591
M981	EEGNGSGSILPTPEASKGRDIDLFLKGIRTAETDIPQIGKARYTGTWEARIGVP		591
881607	EEGNGSGSILPTPEASKGRDIDLFLKGIRTAETDIPKNGTAHYTGTWEARIGVS		583
	* * * *		
BNCV	-----IQWDNHADKEAAKAVFTVDFGKKSISGTLTEKNGVEPAFRIEN		608
H44/76	-----IQWDNHADKKAKEAFTVDFGKKSISGTLTEKNGVQPAFHIEEN		631
M990	-----IQWDNQADEKAAKAEFTVDFDKKSISGKLTEQNGVEPAFHIED		634
M981	DKKGQQLDGTTSIQKDSYA-NQAAKAEFTVDFGAKSLSGKLTEKNDTHPAFYIEK		645
881607	D-----SGTSIQKDSYA-NQGAKEFTVDFEAKTVSGMLTEKNDTTPAFYIEK		630
	* * *		
BNCV	GVIEGNGFHATARTRDDGIDLSGQGSTKPIFKANDLRVEGGFYGPQAEELGGII		663
H44/76	GVIEGNGFHATARTRDNGINLSGNDSTNPPSFKANNLLVTGGFYGPQAEELGGTI		686
M990	GKIDGNGFHATARTRESGINLSGNGSTDPKTFQASNLRVEGGFYGPQAAELGGTI		689
M981	GVIDGNGFHALARTRENGVDLSGQGSTNPQSFKASNLLVEGGFYGPQAAELGGNI		700
881607	GVIDGNGFHALARTRENGIDLSGQGSTNPKNFKADNLLVTGGFYGPQAAELGGNI		685
	* * *		
BNCV	FNNDGKSLGITEGTENKVEADVDDVDVDVDADADVE-QLKP-EVKPQFGVVFGA		716
H44/76	FNNDGKSLGITEDTENEAEAEVENEAGVG-----E-QLKP-EAKPQFGVVFGA		732
M990	FNNDGKSLSITENIENEAEAEVEEAEAEVEEADVKGQLEPDEVKHKFGVVFGA		744
M981	IDSDRK-----	IGVVFGA	713
881607	IDSDRK-----	FGAVFGA	698
	* *		
BNCV	KKDNKEVEK	725	
H44/76	KKDNKEVEK	741	
M990	KKDMQEVEK	753	
M981	KKDMQEVEK	722	
881607	KKDDKEATR	707	
	*** *		

Fig. 10

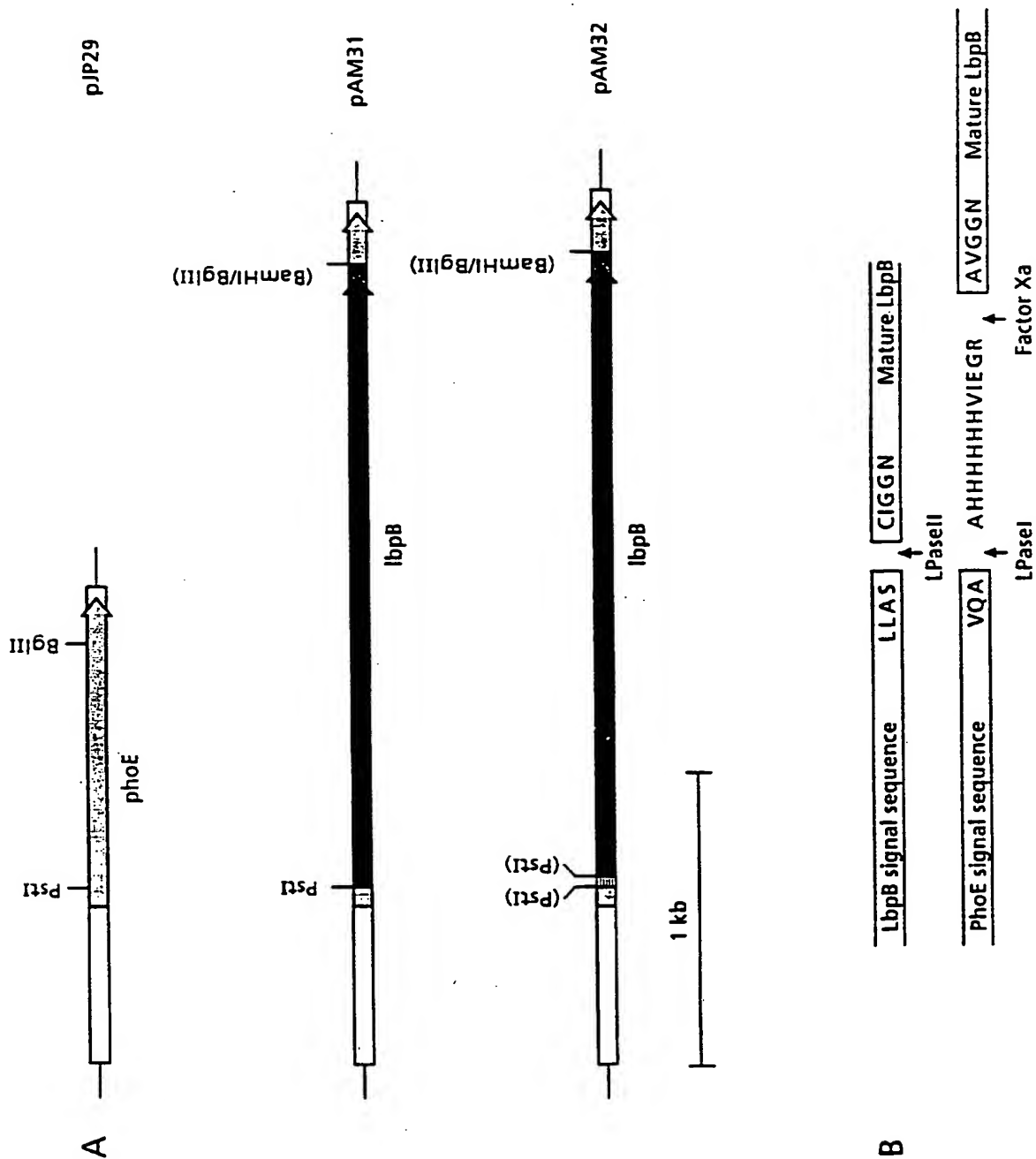


FIGURE 11

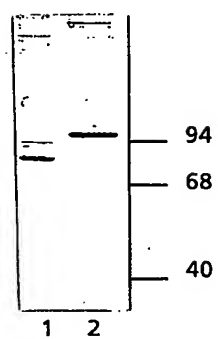


FIGURE 12

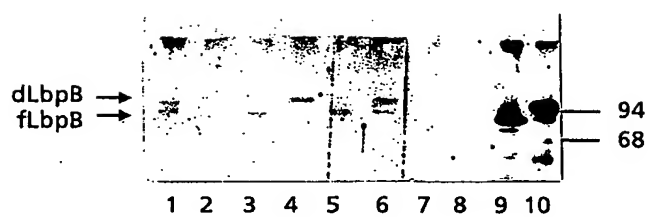


Fig. 13

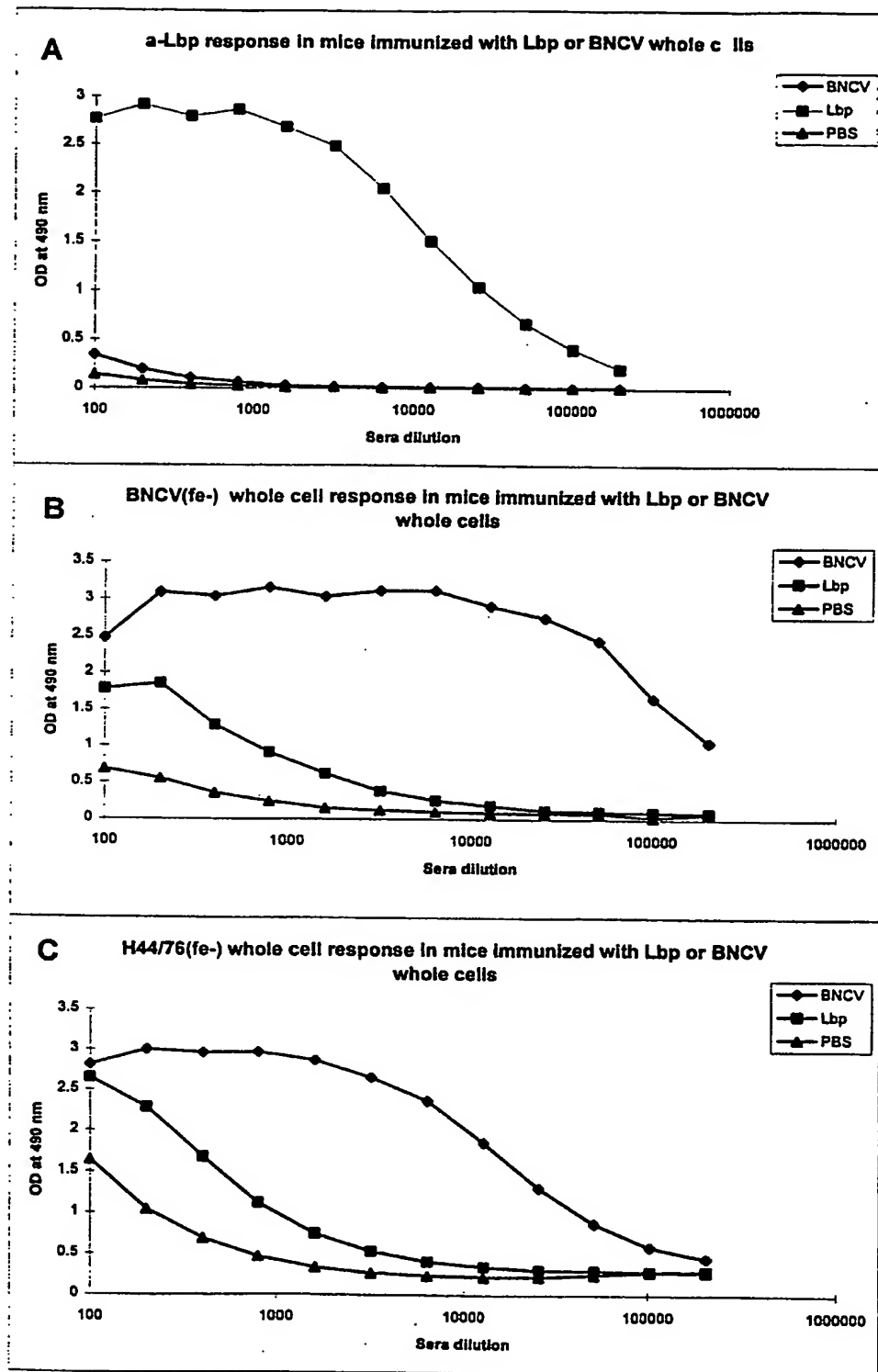


FIGURE 14

